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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/755,189	01/08/2001	Bong-hwan Cho	Q62412	4872	
75	7590 08/18/2004			EXAMINER	
SUGHRUE, MION, ZINN, MACPEK & SEAS, PLLC 2100 PENNSYLVANIA AVENUE, N.W.			NGO, CHUONG D		
	N, DC 20037-3213	γ.	ART UNIT	PAPER NUMBER	
			2124		

DATE MAILED: 08/18/2004

Please find below and/or attached an Office communication concerning this application or proceeding.



			(
	Application No.	Applicant(s)	No.
	09/755,189	CHO, BONG-HWAN	C.
Office Action Summary	Examiner	Art Unit	
	Chuong D Ngo	2124	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet wi	ith the correspondence address	;
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIC - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the m earned patent term adjustment. See 37 CFR 1.704(b).	DN. R 1.136(a). In no event, however, may a r . reply within the statutory minimum of thir riod will apply and will expire SIX (6) MON atute. cause the application to become AF	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communi	ication.
Status			
1) Responsive to communication(s) filed on $\underline{0}$	<u>4 May 2004</u> .		
<i>i</i>	This action is non-final.		
3) Since this application is in condition for allo			its is
closed in accordance with the practice unde	er <i>Ex parte Quayle</i> , 1935 C.D). 11, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-18 is/are pending in the applicat	ion.		
4a) Of the above claim(s) is/are with	drawn from consideration.		
5) Claim(s) is/are allowed.			
6) Claim(s) <u>1-3,13,14,17 and 18</u> is/are rejected	d.		
7) Claim(s) <u>4-12,15 and 16</u> is/are objected to.	aller I e		
8) Claim(s) are subject to restriction an	d/or election requirement.		
Application Papers			
9)☐ The specification is objected to by the Exam	niner.		
10)☐ The drawing(s) filed on is/are: a)☐ a	accepted or b) objected to	by the Examiner.	
Applicant may not request that any objection to			
Replacement drawing sheet(s) including the cor			
11)☐ The oath or declaration is objected to by the	Examiner. Note the attached	f Office Action or form PTO-15	2.
Priority under 35 U.S.C. § 119			
12)⊠ Acknowledgment is made of a claim for fore a)⊠ All b)□ Some * c)□ None of:	_	119(a)-(d) or (f).	
1. Certified copies of the priority docume			
2. Certified copies of the priority docume			
 Copies of the certified copies of the p application from the International Bur 		received in this National Stage	}
* See the attached detailed Office action for a		received	
	not of the defined copies not	received.	
Attachment(s)			
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 	4) Interview S	iummary (PTO-413) s)/Mail Date	
B) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/	′08) 5) ☐ Notice of In	formal Patent Application (PTO-152)	
Paper No(s)/Mail Date	6) Other:	<u>_</u> .	

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DETAILED ACTION

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1. Claims 1,2 and 13 stand rejected under 35 U.S.C. 102(b) as being clearly anticipated by Gross (4,326,260).

Gross discloses in figure 1 an apparatus for detecting an operation value for input data including a means (34) for storing unevenly spaced seed values (34, see figure 4), and address and data generator (24,26) for comparing the input data with reference values (see figure 3) and generating an address (28) and revised input data (36), and an operator (22,40) for performing a predetermined operation to output an operation values as claimed.

2. Claim 3 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Gross (4,326,260).

It is noted that Gross does not disclose the addition of new seed points until an error value satisfies error rate conditions. However, Gross disclose in col. 3, lines 45-48, that the apparatus has three seed points but suggest that additional seed points may be included. It would have been obvious to a person of ordinary skill in the art to add more seed points to the apparatus of Gross if an error value does not satisfies error rate conditions, in order to reduce errors.

3. Claims 1,13,14,17 and 18 stand rejected under 35 U.S.C. 102(b) as being clearly anticipated by Duvanenko et al. (5,951,625)

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Duvanenko et al discloses in figure 3A an apparatus for detecting an operation value for

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input data including a means (34) for storing seed values (22), and address and data generator

(24) for comparing the input data with a reference value (see figure 4, 100) and generating an

upper address and a lower address (see figure 4,114,118), and revised input data (20), and an

operator (26) for performing a predetermined operation to output an operation values as

claimed.

4. Claims 4-12,15 and 16 are objected to as being dependent upon a rejected base claim,

but would be allowable if rewritten in independent form including all of the limitations of the

base claim and any intervening claims.

5. Applicant's arguments filed on 05/24/2004 have been fully considered but they are not

persuasive.

It is respectfully submitted that Gross does disclose a ROM and Kuvanenko discloses

LUT as the claimed look up table. In addition, the seed points and the number of seed points

in both Gross and Duvanenko are not randomly selected but clearly based on some error rate,

otherwise, only one seed point is needed. Further, Gross' suggestion of additional seed points

in col. 3, lines 45-48, is clearly for nothing else but reducing the approximation error.

6. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time

policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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- 7. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chuong D Ngo whose telephone number is (703) 305-9764. The examiner can normally be reached on Tuesday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki can be reached on (703) 309-9662. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chuong D Ngo
Primary Examiner

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08/10/2004